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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/671,354	09/27/2000	Osamu Okumura	038959.01	8112
25944 75	90 09/24/2003			
OLIFF & BERRIDGE, PLC P.O. BOX 19928 ALEXANDRIA, VA 22320		EXAMINER		
			TON, MINH TOAN T	
			ART UNIT	PAPER NUMBER
			2871	, <u></u> ,,
			DATE MAILED: 09/24/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.		Applicant(s)	1			
e i k	09/671,354		OKUMURA ET AL.				
· Office Action Summary	Examiner	- /	Art Unit	lı /			
·'	Toan Ton		2871	V			
The MAILING DATE of this communication app Period for Reply	pears on the cover	sheet with the co	respondence add	lress			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earmed patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however by within the statutory mining will apply and will expire Solocause the application to	er, may a reply be timel num of thirty (30) days v X (6) MONTHS from the secome ABANDONED	y filed vill be considered timely. e mailing date of this con (35 U.S.C. § 133).	nmunication.			
1) Responsive to communication(s) filed on 14.	July 2003 .						
2a)⊠ This action is FINAL . 2b)□ Th	nis action is non-fin	al.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>30,31,33-41 and 44-67</u> is/are pendir							
4a) Of the above claim(s) 34-36,39-41 and 44-48 is/are withdrawn from consideration.							
5) Claim(s) <u>37-38, 60, 64, 56-58, 61, 65-66</u> is/are allowed.							
6) Claim(s) 30-31, 33, 49-51, 53-55, 59, 62-63, 67 is/are rejected.							
7)⊠ Claim(s) <u>52,57 and 58</u> is/are objected to.	7)⊠ Claim(s) <u>52,57 and 58</u> is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requiren	nent.					
Application Papers							
9) The specification is objected to by the Examine							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on			ed by the Examine	т.			
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120			(4) (5)				
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:		- 4					
1. Certified copies of the priority documen			. N.				
2. Certified copies of the priority documen				- .			
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received.							
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)	л. П	Intoniou Cummer:	(DTO 412) Dance No.6	e)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5)		(PTO-413) Paper No(s atent Application (PTC				

Art Unit: 2871

Claim Rejections - 35 USC § 103

1. Claims 30-31, 33, 49-50, 53-55, 59, 62-63, 67 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohgawara et al (US 5365357).

Ohgawara discloses (Figure 3) a color liquid crystal display device (LCD) comprising color filters formed in both display and peripheral regions of the display device.

In the display region where electrode groups are opposed to each other to perform visual representation, color filters are disposed in pixel portions. In peripheral region (outside of the display region), color filters which are similar to those in the pixel portions of the display region [col. 8, line 42-50].

The regions with no color filters are considered as "second section".

Ohgawara discloses the color filters formed in the display portion (i.e., including Applicant's first and second sections).

Ohgawara discloses and shows light block layers formed between the color filters.

Limitations such as first and second electrodes (not shown by Ohgawara) are known and common in the art, these are necessary driving elements for a liquid crystal display device.

Therefore, it would have been obvious to one of ordinary skill in the art to employ these common elements as necessary driving elements for the LCD device.

Limitation such as a reflector is known and common for achieving a reflective LCD device, wherein the reflective device yields advantages such no backlight is needed. Therefore, it would have been obvious to one of ordinary skill in the art to employ a reflector for a reflective LCD device, wherein the reflective device yields advantages such no backlight is needed.

. Application/Control Number: 09/671,354

Art Unit: 2871

A typical R/B/G color filter absorbs 1/3 (i.e., 33%) of transmitting light, which overlaps Applicant's range 15%-45%.

The size of the color filters is commonly smaller than the dot area in the art.

The use of switching elements such as TFTs is known in the art for advantages such as cross-talk reduction. Therefore, it would have been obvious to one of ordinary skill in the art to employ TFTs for advantages such as cross-talk reduction.

2. Claim 51 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ohgawara as applied to claims 30-31, 33, 49-50, 53-55, 59, 62-63, 67 above, and further in view of Sugimoto et al (US4964702).

Sugimoto teaches that the use of a black mask comprising a complementary color to the color filter yields advantages such as free from unevenness of color and misalignment.

Therefore, it would have been obvious to one ordinary skill in the art to employ a black mask comprising color filters for achieving advantages such as free from unevenness of color and misalignment.

Allowable Subject Matter

3. Claims 37-38, 60, 64, 56-28, 65, 61, 66 are allowed. Claims 52 and 57-58 are objected.

The following is a statement of reasons for the indication of allowable subject matter: the prior art of record does not anticipate nor render obvious to one ordinary skilled in the art a reflective liquid crystal display device comprising a combination of various elements as claimed, more specifically, a combination of the followings: a dot area formed an overlapping portion of

- Application/Control Number: 09/671,354

Art Unit: 2871

the first electrode and second electrode for display, the dot area including a first section and a second section, a color filter arranged in the first section, a transparent layer/area arranged in the second section

The following is a statement of reasons for the indication of allowable subject matter: the prior art of record does not anticipate nor render obvious to one ordinary skilled in the art a reflective liquid crystal display device comprising a combination of various elements as claimed, a dot area formed an overlapping portion of the first electrode and second electrode for display, the dot area including a first section and a second section, a color filter arranged in the first section, a transparent area arranged in the second section, wherein a first voltage is applied to the first section, a second voltage is applied to the second section, the second voltage is applied to dot area while the first voltage is applied thereto, and each of the voltages is different to the other

* Claims 34-36, 39-41 and 44-48 are withdrawn from consideration (nonelected claims).

These claims will be rejoined if they incorporate the allowable subject matter as indicated above.

Response to Arguments

4. Applicant's arguments filed 07-14-03 have been fully considered but they are not persuasive.

Applicant argues that some claims which have been indicated as allowable subject matter in the earlier office action should have not have been rejected. After further consideration, claims 30-31, 33, 49-51, 53-55, 59 and 63 are not patentable in view of the prior art of record (Ohgawara and Sugimoto). It is noted that prosecution of this application has not been closed.

Application/Control Number: 09/671,354

Art Unit: 2871

Applicant argues that Ohgawara fails to teach the dot area having two sections, as claimed. Figure 3 of Ohgawara shows the display region 21 (Applicant's dot area) having two sections, the first section comprising color filters, the second section having no color filters (i.e., between the color filters).

It is noted that the claims recite "transparent area" or "transparent layer" formed in the second section are indicated as allowable subject matter (see reasons for allowance above).

Conclusion

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Application/Control Number: 09/671,354

Art Unit: 2871

Contact Information

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to T. TON whose telephone number is (703) 305-3489. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

September 22, 2003

TOANTON PRIMARY EXAMINER